

Pending Claims:

1-16. (Cancelled).

17. (Currently Amended) A method for cleaning and drying a batch of workpieces within a single process vessel, comprising:

placing the workpieces into the process vessel;

introducing a processing fluid into the process vessel, with the processing fluid beneath the workpiece;

heating the processing fluid with a heater to form a vapor of the processing fluid in the process vessel;

introducing ozone gas into the process vessel, with the ozone gas oxidizing a contaminant on the workpieces in the presence of the vapor of the processing fluid;

rinsing the workpieces by immersing the workpieces in a rinsing liquid in the processing fluid within the process vessel;

rotating the batch of workpieces; and

drying the workpieces by introducing a vapor of an organic solvent into the process vessel, and removing the workpieces from the rinsing liquid in the presence of the vapor introducing a drying fluid into the process vessel; and

removing the processing fluid from the process vessel.

18. (Cancelled)

19. (Previously Presented) The method of claim 17, wherein the step of introducing the ozone gas comprises bubbling the ozone gas into the process fluid.

20. (Currently Amended) The method of claim 17, wherein the processing fluid is the same as the rinsing fluid further comprising the step of continuously introducing processing fluid into the process vessel during the immersing.

21. (Cancelled).

22. (Currently Amended) The method of claim [[21]] 17, wherein the dilute organic vapor comprises isopropyl alcohol.

23. (Currently Amended) The method of claim 17, further comprising introducing wherein the drying fluid is a drying gas selected from the group consisting of air and nitrogen into the process vessel with the vapor.

24-30. (Cancelled).

31. (Currently Amended) The method of claim 17 further including flowing the rinsing liquid the step of flowing the processing fluid over a weir at one side of the process vessel.

32. (Previously Presented) The method of claim 17 with the ozone introduced by spraying the ozone onto the workpieces.

33. (Previously Presented) The method of claim 17 further including the step of bubbling the ozone into the processing fluid.

34. (Currently Amended) A process for cleaning and drying a batch of workpieces, comprising:

holding the batch of workpieces in a process chamber;
heating a process liquid;

holding the heated process liquid in the process chamber, with the process liquid below the workpieces, and with a vapor of the heated process liquid formed in the process chamber;

sealing the chamber;

bubbling the ozone gas up through the process liquid in the process chamber, with the ozone gas moving into the process chamber and chemically reacting with contaminants on the workpieces, in the presence of the vapor of the heated process liquid, in a vapor phase process;

rinsing the workpieces by immersing the workpieces into the process liquid in the process chamber, by raising the level of the process liquid in the process chamber, or by lowering the workpieces into the process liquid;

flowing fresh processing liquid into the process chamber, while the workpieces are immersed in the process liquid; and

drying the workpieces via a surface tension effect by introducing a vapor of an organic solvent into the process chamber at a position above the workpieces, while removing the workpieces from the process liquid.

35. (Previously Presented) The method of claim 34 where a fresh supply of process liquid is continuously provided into the process chamber, while the workpieces are immersed in the process liquid, by flowing fresh process liquid into the process chamber, and by draining off process liquid over a weir adjacent the surface of the process liquid.

36. (Currently Amended) The method of claim 34 further including providing ozone gas into the process chamber at a location above the processing liquid rinsing the workpieces.

37. (Previously Presented) The method of claim 36 where the rinsing step is performed by spraying a rinsing liquid onto the workpieces.

38-39. (Cancelled)

40. (Previously Presented) The method of claim 34 further including the step of heating the process liquid while the process liquid is in the process chamber.

41. (Currently Amended) The method of claim 34 further including rotating spinning the one or more workpieces within the process chamber.

42. (Cancelled)

43. (Currently Amended) A process for cleaning, rinsing and drying a batch of workpieces in a single process chamber, comprising:

holding the workpieces in a process chamber;

heating a process liquid including de-ionized water;

holding the heated process liquid in the process chamber, with the process liquid below the workpieces and with a vapor of the heated process liquid in the process chamber;

bubbling the ozone gas up through the process liquid in providing ozone gas into the process chamber with the ozone gas reacting with a contaminant on the workpieces, in the presence of the vapor of the heated process liquid, to clean the workpieces;

immersing the workpieces into the process liquid in the process chamber, by raising the level of the process liquid in the process chamber, or by lowering the workpieces into the process liquid;

~~rotating the workpieces;~~

continuously flowing fresh processing liquid into the process chamber, while the workpieces are immersed in the process liquid, and draining off process liquid over a weir adjacent the surface of the process liquid; and

~~rinsing the workpieces by spraying a rinsing liquid onto the workpieces;~~

drying the workpieces in the process chamber using an organic solvent.

44. (Cancelled)

45. (New) The process of claim 43 further comprising rotating the workpieces.